Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in this application.

Listing of Claims:

1. (Currently amended) A dental crown configured to be readily mountable in a patient's mouth as part of a treatment of primary teeth and permanent molars, the dental crown having a natural appearance and color of a vital tooth and comprising

a tooth shaped top surface and

depending flexible side surfaces extending continuously around edges of said tooth shaped top surface and extending continuously from a tooth shaped top surface end of the dental crown to an end opposite said tooth shaped top surface end of the dental crown, said dental crown being formed of a thermoplastic material enabling dimensional stability and sufficient resilience of the crown,

at least one of said depending flexible ~~continuous~~ side surfaces ~~having an inner surface shaped with~~ formed with an undercut defining an inwardly directed bottom portion, thereby enabling the dental crown to be ~~used for treatment of~~ mounted on a primary ~~teeth and~~ tooth or permanent molar[[s,]]

~~wherein said dental crown is formed of a resilient and dimensionally stable thermoplastic material such that said dental crown returns to its original shape upon being applied to and removed from a patient's dentition~~.

2. (Currently Amended) A dental crown according to claim 1, wherein said thermoplastic ~~polymer~~ material ~~comprising~~ comprises a polymer selected from polyacetal, polyacrylate, polymethylmethacrylate (PMMA), polyamide, polyaryletherketone (PAEK), polyetherketone (PEK),

polyetheretherketone (PEEK), polyetherimide (PEI), polyethersulfone (PES), polysulfone (PSU), and mixtures thereof.

3. (Previously presented) A dental crown according to claim 2, wherein said polymer is a homo- or co-polymer of acetal resin, polyetheretherketone (PEEK) or polymethylmethacrylate (PMMA).

4. (Currently Amended) A dental crown according to claim 1, wherein said thermoplastic ~~polymer~~ material ~~further comprising~~ comprises at least one of the following: fibers, fillers, pigments and reinforcements.

5. (Original) A dental crown according to claim 1, formed by injection molding.

6. (Previously presented) A dental crown according to claim 5, produced by a mass production injection molding method, said mass production injection molding method comprising:

providing a multi-element mold; and

employing the multi-element mold to injection mold a dental crown from a thermoplastic polymer material.

7. (Original) A dental crown according to claim 6, wherein said multi-element mold includes an ejector, which is being operated to eject the molded crown following opening the multi-element mold.

8. (Original) A dental crown according to claim 1, formed by compression molding.

9. (Original) A dental crown according to claim 1, formed by machining.

10. (New) A dental crown configured to be mounted in a patient's mouth as part of treatment of primary teeth and permanent molars,

the dental crown being made of acetal homopolymer resin and having a natural appearance and color of a vital tooth,

the crown having a tooth shaped top surface and depending flexible side surfaces extending continuously around edges of said tooth shaped top surface and extending continuously from a tooth shaped top surface end of the dental crown to an end opposite said tooth shaped top surface end of the dental crown,

said dental crown being dimensionally stable and having sufficient resilience,

at least one of said depending flexible continuous side surfaces being formed with an undercut defining an inwardly directed bottom portion, thereby enabling the dental crown to be readily mountable on a primary tooth or permanent molar.

11. (New) A method for manufacturing a dental crown to be used for treatment of primary teeth and permanent molars, the method comprising:

providing a mold cavity defined by a top mold element, a bottom mold element and an ejector, the top mold element having a cut channel;

injecting acetal homopolymer resin material into the mold cavity through said cut channel thereby forming a molded dental crown in said cavity; and

separating the bottom mold element from the top mold element allowing removal of the molded crown from said cavity.